

NOVATECH SRA

Shrinkage Reducing Admixture for Concrete and Mortar

Description

Novatech SRA is a ready-to-use liquid-based shrinkage reducing admixture used to produce high performance concrete. It is specifically developed to reduce the drying shrinkage of concrete and mortar, and the potential for subsequent cracking. **Novatech SRA** increases cohesion within the concrete pore system which reduces water loss and reduces shrinkage to improve concrete durability.

Domains of Application

- ✓ Structures with strict demands regarding crack width limitations.
- ✓ In concrete where low drying shrinkage is important
- ✓ Increasing the joint spacing of situ concrete floors without increasing the risk of shrinkage cracking
- ✓ In thin bonded topping slabs, to minimise the differential shrinkage from the existing substrate.
- ✓ In concrete elements which are restrained against shrinkage
- ✓ Concrete in marine environments requiring enhanced durability.
- ✓ Watertight and water retaining concrete structures.

Advantages

- ✓ Reduces microcracking and drying shrinkage cracking in concrete, mortar, and paste.
- ✓ Minimises curling in concrete slabs.
- ✓ Reduces capillary tension that develops within the concrete pores as it dries.
- ✓ Increases durability of the structure and decreases expensive maintenance costs.

- ✓ Reduces stress induced from one-dimensional surface drying in concrete slabs, walls and other elements.
- ✓ Minimises prestress loss in prestressed concrete applications.
- ✓ Does not modify the water demand of concrete, nor impacts the water/cement ratio.
- ✓ Non-chloride and non-corrosive

Indicative Characteristics

Form / Colour	Light Brown liquid
pH Value	7 ± 1
Solubility	Water soluble

Application Instructions

Dispensing and Mixing

- ✓ **Novatech SRA** may be added to the concrete mixture during the initial batch sequence or at the jobsite.
- ✓ The mixed water content should be reduced to account for the quantity of **Novatech SRA** used.
- ✓ If the delayed addition method is used, mixing at high speed for 3 to 5 minutes after the addition of **Novatech SRA** will result in mixture uniformity.

Recommended Dosage

For slab, raft and foundation concrete – 2% weight of cementitious.

For flooring concrete – 3% weight of cementitious.

However, the optimum dosage of **Novatech SRA** can only be determined after trial tests, taking the local conditions into account.

Packaging

50 kg and 200 kg HDPE barrels. Bulk tanker on request.

Shelf life & Storage

12 months from the date of manufacture.

Store away from frost, and at a temperature between 5°C and 30°C. Should the product freeze, it will recover its properties after thawing and agitating.

Precautions

- ✓ **Novatech SRA** must not be added to dry cement.
- ✓ Should the product spill on coloured surfaces, these may be altered.

Safety

- ✓ Wear hand gloves, safety shoes and safety goggles while using and handling the product.
- ✓ In case eyes or mouth are affected, wash with plenty of clean water and seek medical treatment immediately.

Before use, refer to the Material Safety Data Sheet (MSDS). The MSDS is available on www.ccichemicals.in or contact us at info@ccichemicals.in.

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